

segments providing communication between cells of the cell architecture.

3. (Amended) The bus system according to claim ¹7, wherein the unit includes a plurality of CPUs in a multi-dimensional arrangement.

4. (Amended) The bus system according to claim ¹7, wherein the unit includes a plurality of arithmetic logic units in a multi-dimensional arrangement.

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15. (Amended) The bus system according to claim ¹7, further comprising:

a program loading unit, and

wherein the program loading unit performs at least one of a configuration and a reconfiguration for each one of the plurality of nodes and the respective routing table of each one of the plurality of nodes.

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22. (Amended) The method according to claim ¹⁷28, wherein the module having the multi-dimensional cell architecture includes at least one of a field programmable gate array and a dynamically configurable gate array.

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23. (Amended) The method according to claim ¹⁷28, wherein the module having the multi-dimensional cell architecture includes a module having a two-dimensional programmable cell architecture.

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24. (Amended) The method according to claim ¹⁷28, wherein the plurality of bus segments are permanently connected to a continuous bus system without delays.

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25. (Amended) The method according to claim ¹⁷28, wherein the plurality of bus segments are switched by a plurality of registers, each one of the plurality of registers having a time delay and an arbitration.

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21. (Amended) The method according to claim ¹⁷28, wherein the plurality of bus segments are at least one of permanently connected to a continuous bus system without delays and switched by a plurality of registers, each one of the plurality of registers having a time delay and an arbitration.

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22. (Amended) The method according to claim ¹⁷28, the method further comprising the steps of:
entering at least one of a unique determinable relative address and a unique absolute address of a target;
and
setting up the plurality of bus segments as a function of the unique determinable relative address and the unique absolute address.

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23. (Amended) The method according to claim ¹⁷28, the method further comprising the step of:
setting up the plurality of bus segments as a function of at least one of a plurality of lookup tables and an at least one of a unique determinable relative address and a unique absolute address of a target.

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24. (Amended) The method according to claim ¹⁷28, the method further comprising the step of:
setting up the plurality of bus segments via a plurality of requests to a plurality of nodes,
wherein a set of requests to a single node of the plurality of nodes are arbitrated if the set of requests includes more than one request.

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25. (Amended) The method according to claim ¹⁷28, the method further comprising the step of:
setting up the plurality of bus segments via a plurality of requests to a plurality of nodes,
wherein a set of requests to a single node of the plurality of nodes are simultaneously processed by the single node.

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